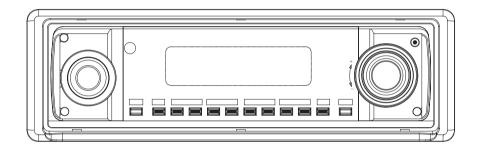




OWNER'S MANUAL

Mobile Video System



- Anti Theft Flip Down Detachable Panel
- VFD Moving Display
- Car DVD/VCD/CD/MP3 Player
- AM/FM Digital PII Tuning Radio
- Auxiliary Input Function
- Parental Control
- Remote Control

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SAFETY INFORMATION

CAUTION:

THIS DVD PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS DVD PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE. HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DVD PLAYER CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS FOUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macro vision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

REGION MANAGEMENT INFORMATION:

This DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD Player, this DVD Player cannot play this disc.

DISC NOTES

Disc formats supported by this player

DVD

DVD

12 cm disc

(Single-sided disc only)

DIGITAL VIDEO

Video CD

12 cm disc

DIGITAL AUDIO

CD

12 cm disc

MP3 MP3

12 cm disc

Discs which cannot be played with this player

- DVD-ROM
- DVD-R/DVD-RAM
- CDV
- CD-G

Handling and Cleaning

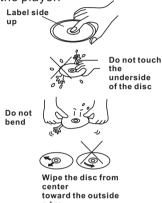
- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
 - 1.Direct sunlight
 - 2.Dirty, dusty and damp areas
 - 3. Near car heaters
 - 4.On the seats or dashboard

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

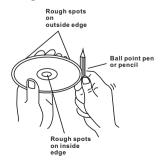
Note:

A disc may become somewhat scratched (although not enough to make it unusable) depending on your handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



INSTALLATION

NOTES:

Choose the mounting location where the unit will not interfere with the normal driving function of the driver.

Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.

Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.

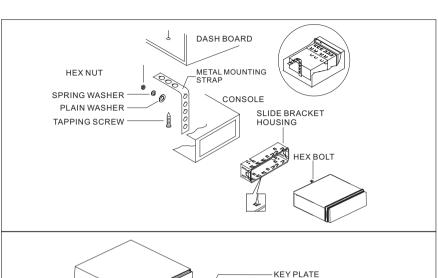
If installation angle exceeds 30 from horizontal, the unit might not give its optimum performance.

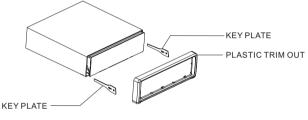
Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

DIN FRONT/REAR-MOUNT

This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

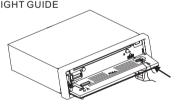
INSTALLATION



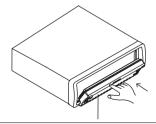


1.WHILE INSTALLING THE FRONT PANEL, PLEASE MOUNT THE LEFT SIDE FIRST, AND MAKE THE DIRECTION HOLE ON THE FRONT PANEL AIM AT THE LEFT GUIDE ON THE UNIT 2.THAN PUSH THE RIGHT SIDE TO MOUNT THE RIGHT GUIDE





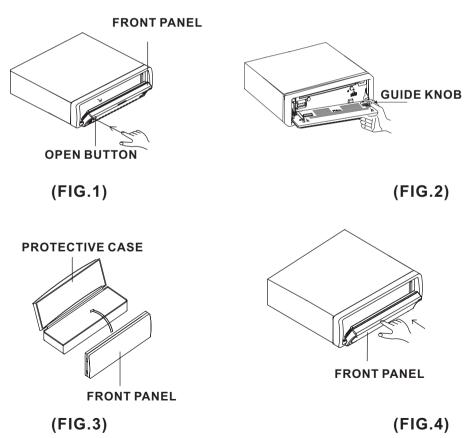
3.PUSH IT TO INSTALL THE FRONT PANEL COMPLETELY.



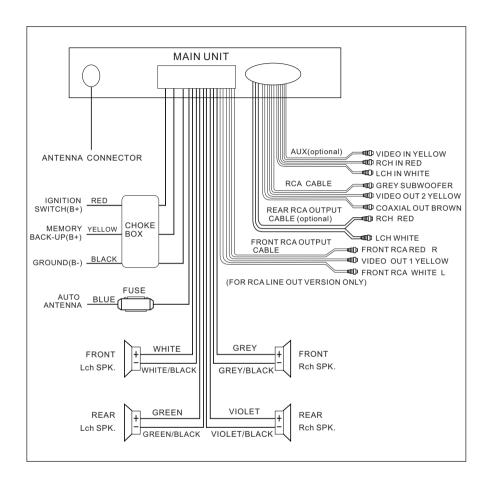
INSTALLATION

CAUTION: DO NOT INSTALL THE DETACHABLE PANEL BEFORE CONNECTING THE WIRE.

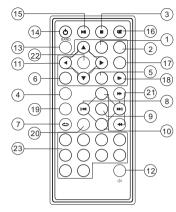
- 1. The unit is designed for negative terminal of the battery which is connected to the vehicle metal. Please confirm it before installation.
- 2. If the car interior is extremely hot, as after being parked in the sun, do not use the player until the car has been driven for a while to cool off the interior.
- 3. Press the OPEN button to flip down the front panel (see fig.1), Slide the guide knob to remove the right side first, then take away the front panel. (see fig.2) and put it in the protective case (see fig.3) for safe keeping.
- 4. Install the front panel back into its bracket and then push it back to the position for playing (see fig.4).



ELECTRIC CONNECTION



REMOTE CONTROL



1. Clk Display And Set The Clock. 2. Mode Select Playback Mode.

3. Stop Stops Playback.

4. Setup Accesses The Setup Menu. 5. Mo/st Select The Sound Mode.

6. Subtitle Selects a subtitle language. Lo/dx In radio mode, depress it for stronger signal.

7. Repeat Repeat chapter, track, title, all.

8. He / N Go to next chapter or track. 9. Sel Change the Audio mode.

10. VOL+/- Adjusts volume level.

11. ▲ ▼ ▶ Selects an item in menu.

12.Menu Accesses menu on a DVD disc. Sub press it to switch the

Subwoofer On or Off.

13.Band Select the desirec bands. display the disc information. (OSD)

14. o Switches device On and Off. 15. **Ы**І

Stars or Pause playback. 16.Mute Press it to mute down sound.

17.Title Display title menu, if available

18.Slow Changing for slow forward/ reverse playback motion

19.Angle Changing of the view angle on multi-angle DVD disc.

turn to equalization function. 20.EQ 21. ◀ / ▶ start forward/reverse rapidly.

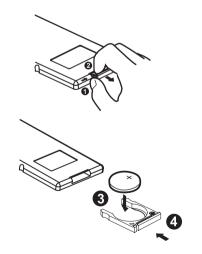
22.Enter Confirm the Track/Chapter. 23.0-9 Numeric buttons.

- 1. First push to inside as the direction indicated by the arrow (See . 1) And then Remove the battery holder as the direction indicated by the arrow (See. 2).
- 2. Replace the battery Set a new battery property with (+)side up as illustrated (See. 3).
- 3. Insert the battery holder. Push in the holder to the original position (See. 4).

Using the Remote Control

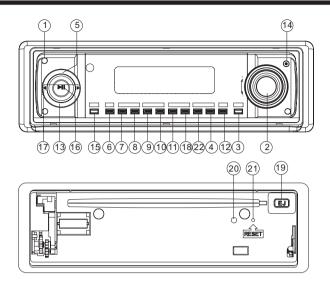
Face the remote control towards the player front face IR mark (remote control signal receiver).

Operation angle: About ±30 degree in each the direction of the front of the IR mark



PREPARING THE REMOTE CONTROL

INSERTING THE BATTERIES



1.OPEN BUTTON

Press it to flip down the front panel then you can insert the cd disc into the CD compartment. And you can find the (EJECT)button .Press it to eject the disc.

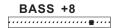
2-3.VOL+/VOL- & SEL BUTTON

Press it to change audio mode through volume, bass, treble, balance, and fader modes. Rotate VOL + /VOL- knob to adjust the selected mode. (The corresponding value will show on the display.)

A.Volume: Adjust volume level by using VOL + / VOL - knob..
Note: The unit is initially set to volume mode.



B.Bass:Press SEL button one time. Adjust bass level by using VOL + / VOL - knob.



C.Treble:Press SEL button two times. Adjust treble level by using VOL + / - knob.



D.Balance: Press SEL button three times. Adjust sound balance between left and right speakers by using VOL + / VOL - knob.



E.Fader:Press SEL button four times. Adjust sound balance between front and rear speakers by using VOL + / VOL - knob.



4.BAND BUTTON

In RADIO mode, press the BAND button repeatedly to select bands in following order:



5.EQ BUTTON

Swing the MI knob in the direction of the EQ to turn to equalization function and to select desired audio mode.

There are four kinds of mode as below:

6-7-8-9-10-11.PRESET STATION

- A. To memorize the current frequency, press any one of the six preset buttons [1-6] on the front panel or on remote controller hold for more than 2 seconds
- B. To recall the preset memory, press one of the preset buttons [1-6].
- C. Press **1/TOP** button to select the first track/chapter to play.
 - a. In the state of VCD/CD/MP3 discs playing, press the button on the front panel to select the first track/chapter to play.(depend on the disc used VCD) b. In the state of DVD disc playing, the 1TOP button is not available.
- D. Long press **2/RPT** button to select repeat mode as follow.

DVD:

CHAPTER REPEAT ON → TITLE REPEAT ON →
REPEAT OFF

VCD/CD:



a.Continuously repeat at the current chapter/track, when selected REP-ONE mode.

b.continuously repeat all chapter/track on the current disc, when select the REPEAT ALL mode.

c.REPEAT feature does not support VCD2.0 (with PBC ON).

- E.Long press 3/INT button to scan disc.
- a. In the state of VCD/CD disc playing, press the 3/INT button on front panel to play the previous 10 seconds part of each track/chapter on disc.

(depend on the disc used for VCD) b. In state of DVD/MP3 disc playing, the 3/INT button is not available.

- F.Long press **4/RDM** to play disc in random.
 - a. In the VCD/CD/MP3 disc playing, press the 4/RDM button on front panel to play in random

(depend on the disc used for VCD).
b. In the DVD disc playing, the 4/RDM button is not available.

12.AS/PS BUTTON

When shortly pressing the APS button on the front panel or the A/P button on the remote controller, the radio searches for each preset station. When the field strength level is more than the threshold level of stop level, the radio is holding at that preset number for few seconds with releasing mute, and then searches again. In FM band, FM 1, FM 2 and FM 3 is checked one at a time When long pressing the APS or A/P button (more than 1 second), the radio searches from the current frequency and checks the signal strength level until 1 cycle search is finished. And then 6 strongest stations are preset to the corresponding preset number.

The AS operation is implemented in the each band of selected band. When the AS operation is finished, the radio executes the preset scan.

13.MUTE BUTTON

Swing the MI knob in the direction of the EQ to eliminate the sound immediately. Swing it again to release this mode and recover previous volume level.

14.CLK BUTTON

Press it to change the display to clock display. Press it again to return to previous display. In clock display, press and hold for about 2 seconds until the hour display flashes. Rotate VOL+/knob to adjust hours ,press CLK button to flash minute then Rotate VOL+/- knob to adjust minutes.

15.PWR BUTTON

Press it to switch the device ON or OFF.

16.► BUTTON

Pressing ►I during playback will stop play temporary. Return to normal playback, press ►II once again.

17. **◄** / ▶ BUTTONS

a. In DISC playback mode, briefly swing the ►II knob in the direction of the ◄ / ► to skip the forward/back one track, press and hold 2 seconds to fast forwards/fast reverse.

The speed of rapid forward/reverse changes according to the disc as follow. DVD:



C. In radio mode, swing the ► knob in the direction of the ◄ / ► ,to manually tune up or down for your desired station. Press and hold for more than 2 seconds to automatically tune up or down for the stronger station.

18.MOD BUTTON

Press it repeatedly select Disc ,Aux In , Radio mode.

19.EJECT BUTTON

Press the eject button to eject the disc form the disc slot.

20.FLASHING LED

If the front panel is not on the main unit, LED will be flashing.

21.RESET BUTTON

RESET button is placed on the housing and must be activated with either a ballpoint pen or thin metal object.
The RESET button is to be activated for the following reasons:

- a. Initial installation of the unit when all wiring is completed.
- b. All the function buttons do not operate.
- c. Error symbol on the display.

Note:If press RESET button, the unit can't work yet, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the front panel.

22.ST BUTTON

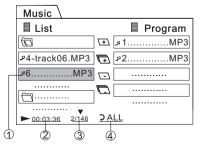
Press ST button to select stereo or mono reception for radio stations.

Playing an Audio CD or MP3/WMA file

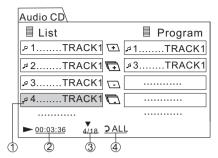
This unit can play Audio CDs or Mp3/WMA files recorded media.

MP3/WMA/Audio CD

Once you insert an MP3/WMA files recorded media or Audio CD, a menu appears on the TV screen. Press ▲ /▼ to select a track/file then press ENTER and playback starts. You can use variable playback function.



- (1).Current track(file)(highlighted bar)
- (2). Elapsed playing time of the current track
- (3).Current track (file) number/total number of tracks(files) in the current folder
- (4). Selected playback mode



- (1). Current track(file)(highlighted bar)
- (2). Elapsed playing time of the current track
- (3).Current track (file) number/total number of tracks(files) in the current folder
- (4). Selected playback mode

Press REPEAT repeatedly to select the desired repeat mode.

- 1.REP-ONE: repeats the current track.
- 2.REP-ALL

repeats all the tracks on the list.

3. REP-OFF

does not play repeatedly.

In the playback, use

or

to skip an item ahead or back.

Swing the ► knob and hold for more than 2 seconds in the direction of the ► / ◀, or press ► / ◄ on the remote control to rapid forward/reverse.

PROGRAMMED PLAYBACK

The program function enables you to store your favorite tracks from any disc in the player memory.

- 1. Insert an Audio CD or MP3/WMA files recorded media. AUDIO CD or MUSIC menu appears.
- 2. Use ▲ ▼ ▶ to Select a track on the "list", press to place the selected track on the "program" list. Repeat to place additional tracks on the list, then press the ENTER to confirm. If you want to add all tracks on the "Program", list, press the to confirm.

- 3. Select the track you want to start playing on the "program" list.
- 4. Press the ENTER to start. Playback begins in the order in which you program The tracks. Playback stops after all of the tracks on the "program" list have played once.
- 5. To resume normal playback from programed playback, select a track on the list and then press ENTER. You can use variable playback functions . refer to above CD/MP3.

Erasing A Track From "program" List

- 1. During STOP mode. Use ▲ ▼ ▶ ◀ to select the track that you wish to erase from the Program list.
- 2. Press 🗔 . Repeat step 1-2 to eras additional tracks on the list.

Erasing The Complete Tracks From "Program" List

- 1. During STOP mode, use ▲ ▼ ▶ ◀ buttons to select the 🗔 .
- 2. Press the ENTER to confirm.

ON-SCREEN DISPLAY FUNCTION

Press the OSD during playback.

This unit features GUI (Graphic User Interface) Menu Icons showing disc information(title/chapter/track number, elapsed playing time, audio/subtitle language, angle, and sound) and player information(repeat play, play mode, marker, etc.). Some icons only show the indicated information. Other icons allow the settings to be changed.

FUNCTION

SELECTION

[TV Screen] For DVD GUI		(Press▲ /▼ to select desired item)	METHOD
(H	∢ 3/15 ▶	To show the current title number and to jump to the desired title number	√
N3	1/3	To show the current chapter number and to jump to the desired chapter number.	√I 0-9 INPUT ○ENTER SKIP
	00:03:25	To show the elapsed time and directly select scenes by the desired time.	0-9 INPUT ⊙ENTER
F	1.CH1 ◄ □ □ ▶ 3/2.1	To show the current audio soundtrack language, encoding method, changed number and to change the settings.	◄/▶ , AUDIO
台	NONE	To show the current subtitle language and to change the settings.	◀/▶ , SUBTITLE
	1/3	To show the current angle number and to change the angle.	∢ /▶ , ANGLE
	ANODMALA	To show the current sound(NORMAL, or 3D	4/5

[TV Sc	he OSD during pla reen] D/SVCD GUI	ayback. FUNCTION (Press▲ /▼ to select desired item)	SELECTION METHOD
(H	∢ 3/15 ►	To show the current title number and to jump to the desired title number	◆/▶ 0-9 INPUT
	00:03:25	To show the elapsed time and directly select scenes by the desired time.	0-9 INPUT ⊙ENTER
	NORMAL►	To show the current sound(NORMAL, or 3D SURROUND) and to change the setting.	∢ /▶

SURROUND) and to change the setting.

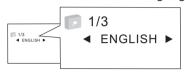
Note: For CD and MP3, press OSD button is not available.

MULTI-AUDIO LANGUAGE FUNCTION

For DVD:

Press AUDIO during playback. Each time the button is pressed, number of the audio soundtrack language changes on sequential order.

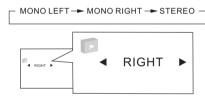
if the disc has multi-audio language.



Ex: When the disc has 3 options

For VCD/CD:

Press AUDIO during playback. It is possible to switch the sound between monaural and stereo sound.



RIGHT: To listen to the RIGHT audio channel.

LEFT: To listen to the LEFT audio channel.

STEREO: To listen to normal stereo (left/right) playback.

MULTI-SUBTITLE LANGUAGE FUNCTION (For DVD only)

Press SUBTITLE during playback. Each time the button is pressed, number of the subtitle language changes in sequential order.

If the disc has multi-subtitle language.

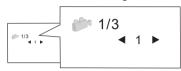


Ex: When the disc has 3 options

MULTI-ANGLE FUNCTION(For DVD only)

Press ANGLE during playback. Each time the button is pressed, number of the angle changes in sequential order.

if the disc has multi-angel views.



Ex: When the disc has 3 multi-angle views

TITLE MENU FUNCTION

- A. DVD: If the DVD has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.
- A.Press TITLE during playback.
 The title menu is display.
- b.Press the cursor button shown in TV screen, select preferred title by the cursor button and confirmed by ENTER key.
- B. VCD: Press TITLE button on the remote controller while the disc is playing, you can switch between "PBC on"and "PBC off"mode.

LANGUAGE SETUP



1.Menu Language Setup

Select the preferred MENU language by using the cursor buttons.



2.Disc Audio Language

Select the preferred AUDIO sound-track by using the cursor buttons.



3.Disc Subtitle setup

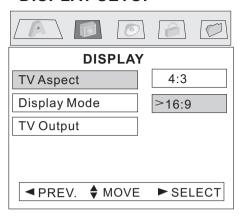
Select the preferred DISC SUBTITLE language by using the cursor buttons.



4.Disc Menu lang type Setup

Select the preferred Disc Menu Language by using the cursor buttons.

DISPLAY SETUP



1.TV ASPECT SETUP

This is to select the appropriate Display Mode(Letter box or Pan scan Wide screen) according to the connected TV set.

4:3LB(Letter Box)

Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.

4:3PS(Panscan)

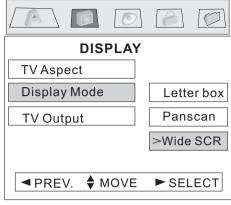
Select this when the aspect ratio of your monitor is 4:3.

While viewing a wide screen picture, the black bars do not appear;

however, the left and right edges of the pictures will not be shown on the screen.

16:9 TV(Wide Screen)

Select this when the aspect ratio of your monitor is 16:9.



		TV Scree	en	
Video Material	4:3		Wide(16:9)	
material	Normal	Pan Scan	Letter-box	
4:3 ° 0 0	$^{\circ}$	$^{\circ}$	$^{\circ}$	$^{\circ}$
16:9	0°00°0		O	00 00 00

2. Display Mode Setup

This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

Letter Box (For 4:3 TV)

Played back in letterbox style.

(If connected to wide-screen TV, black bands appear at top and bottom of the screen.)

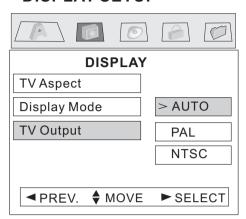
Panscan (For 4:3 TV)

Played back in the PAN & SCAN style. (If connected to wide-screen TV, the left and right edges are cut off.)

Wide Screen (For 16:9 TV)

Select when a wide-screen TV set is connected.

DISPLAY SETUP



3.TV OUTPUT SETUP

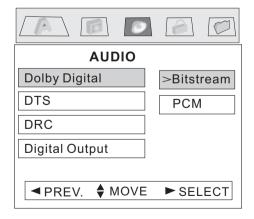
This player can play discs recorded in either PAL or NTSC format. Select NTSC format, when you connected to NTSC TV.Select PAL format, when you connected to PAL TV.Select AUTO format, the player TV output format will according to the DVD disc format...

AUDIO Dolby Digital Bitstream DTS >PCM DRC Digital Output PREV. \$ MOVE SELECT

2.DTS Setup

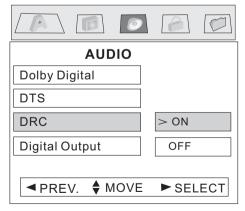
Select the DTS between Bitstream and PCM. (Select this when connecting an amplifier or a decoder compatible with DTS)

AUDIO SETUP



1.Dolby Digital Setup

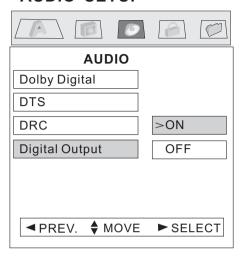
Select the Dolby Digital between Bitstream and PCM.(Select this when connecting an amplifier or a decoder compatible with DOLBY DIGITIAL)



3.DRC Setup

Select the DRC between ON and OFF.

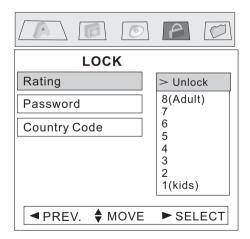
AUDIO SETUP



4. Digital Output

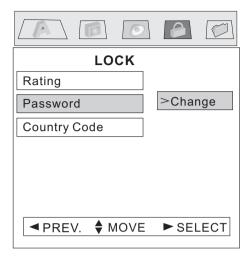
Select the DRC between ON and OFF.

LOCK SETUP



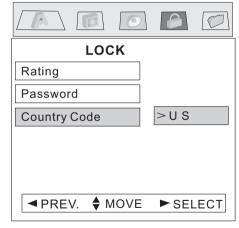
1.Rating Setup

Select suitable parental guidance by the cursor buttons and conformed by pressing ENTER button.



2.PASSWORD

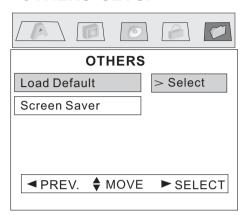
Select the Change and press ENTER button. Type the old password (The initial factory code is **3351**) and key in 4 characters password now you want to use, and retype again to confirm key in correctly.



3. Country Code

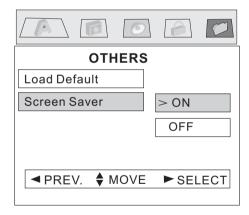
Select suitable country code by the cursor buttons and conformed by pressing ENTER button. (Please key in the correctly password before select)

OTHERS SETUP



1.LOAD DEFAULT

Select it to become factory initial setting.



2.SCREEN SAVER SETUP

Select the Screen Saver output ON/OFF.

DEFAULTS TABLE

	Menu Language	English
Language	Disc Audio	Original
	Disc Subtitle	OFF
	Disc Menu	Original
	TV Aspect	16:9
Display	Display Mode	Wide screen
	TV Output	Auto
Audio	Dolby Digital	Bitstream
	DTS	PCM
	DRC	ON
	Digital Output	ON
Lock Setup	Rating	Unlock
	Password	3351
'	Country Code	US
Others	Load Default	Select
Others	Screen Saver	ON

TROUBLE SHOOTING

SYMPTOM	CAUSE	SOLUTION
NO POWER	The car ignition switch is not on	If the power supply is properly connected to the car accessory terminal, switch the ignition key to "ACC"
	The fuse is blown	Replace the fuse
	Presence of disc inside the player.	Remove the disc in the player, then put a new one
	Inserting the disc in reverse direction	Insert the compact disc with the label facing upward
DISC CANNOT BE LOADED OR EJECTED	The disc is extremely dirty or defective	Clean the disc or try to play a new one
OKESEGIED	Temperature inside the car is too high	Cool off or until the ambient temperature return to normal
	Volume is in minimum	Adjust volume to a desired level
NO SOUND	Wiring is not properly connected	Check wiring connection
THE RADIO DOES NOT	The antenna cable is not connected	Insert the antenna cable firmly
WORK	The signals are too weak	Select a station manually

SPECIFICATIONS

GENERAL

SUPPLY VOLTAGE: 12V DC (11V-15V)

CURRENT CONSUMPTION: <10 A

SIGNAL SYSTEM:

Compositive video 1.0Vp-p 75Ω

DISCS PLAYED:

(1)DVD-VIDEO Disc

5"(12 cm) single-sided, single-layer 5"(12 cm) single-sided, double-layer (2)Compact Disc (CD-DA, VIDEO CD)

5"(12cm) disc

AUDIO SIGNAL OUTPUT: 2ch&4ch line out CHARACTERISTICS:

(1)Frequency Response 20 Hz - 20 KHz (2)S/N Ratio 90 dB (JIS)

(3)Wow and Flutter

Below measurable limits

FM TUNER SECTION

Tuning Range.......87.5-107.9MHz
IF Range......10.7MHz
Usable sensitivity(30dB).....15dB

AM TUNER SECTION

Frequency Range......530-1710KHz IF Range......450KHz Usable sensitivity(30dB).....45dB

NOTE:

Specifications and design are subject to modification, without notice, due to improvements in technology.